### Tuesday, February 6, 2007

7:45 a.m.	Continental Breakfast			
8:00 - 8:20 a.m.	Welcoming remarks			
Session 1 The Big Picture	Authors	Title		
8:20 - 8:55 a.m.	David Pimentel*	Agricultural impacts on biodiversity and species declines		
8:55 - 9:25 a.m.	Stephen Polasky*	Economics and agriculture: past, present and future		
9:25 - 9:45 a.m.	Break			
9:45 - 10:15 a.m.	Robin D. Moore* and L. Gorenflo	Current and future threat of agriculture expansion on threatened amphibians		
10:15 - 10:45 a.m.	Alisa Gallant*	Potential threats to amphibian populations from global to regional changes in land cover and land use		
10:45 - 11:15 a.m.	Discussion			
Session 2 Emergent Issues 11:15 - 11:40 a.m.	Henna Piha*, Miska Luoto, Markus Piha and Juha Merilä	Climate change and its potential impacts on agricultural land use and herpitiles		
11:40 - 12:30 p.m.	Lunch	Provided		
12:30 - 12:55 p.m.	David Pimentel*	Title forthcoming		
12:55 - 1:20 p.m.	James D. Harwood* and John J. Obrycki	Ecological effects of genetically engineered organisms in agriculture		
1:20 - 1:50 p.m.	Discussion			
1:50 - 2:10 p.m.	Break			

<sup>\* =</sup> Presenter

Session 3 Habitat		
2:10 - 2:30 p.m.	Cristiano Nogueira*	Habitat loss and squamate reptile diversity in the Cerrado savanna hotspot, one of the most threatened regions of the Neotropics
2:30 - 2:50 p.m.	Peter C. Trenham*	The importance of upland habitats for amphibian populations
2:50 - 3:10 p.m.	Catherine M. Johnson*, Lucinda B. Johnson, Joseph Murphy, Carl Richards, Tom Hollenhorst, and Val Beasley	Anurans as bio-indicators of ecological health in an agricultural landscape: The importance of spatial context
3:10 - 3:30 p.m.	Richard M. Lehtinen* and Gregory J. Lipps, Jr.	Declining amphibians in agroecosystems: A landscape level analysis
3:30 - 3:50 p.m.	Matthew J. Gray*, and Loren M. Smith	Influence of agricultural land use on postmetamorphic body size of Southern High Plains amphibians
3:50 - 4:10 p.m.	Dennis Jorgensen* and C.C. Gates	Prairie rattlesnake foraging strategies: The influence of changing landscapes and changing risks
4:10 - 4:30 p.m.	Agnes Janin, Jean-Paul Lena, Christophe Delacourt, Pascal Allemand, and Pierre Joly*	Landscape matrix and toad presence: Toward a tool for assessing connectivity effects
4:30 - 5:00 p.m.	Discussion	

### 6:00 - 8:00 p.m. - Poster Session and Mixer - Hors d'oeuvres and beverages provided

Poster category Habitat	Presenter Elizabeth C. Burton*, Matthew J. Gray, and A. Chandler Schmutzer	Title Influences of cattle on postmetamorphic amphibians in Cumberland Plateau wetlands
	Tim B. Graham*	Toad population dynamics in altered semi-arid riparian systems: Differences in size class distribution as an indication of chronic riparian/aquatic ecosystem disturbance
	Katherine R. Greenwald*, H. Lisle Gibbs, Thomas A. Waite	Gene flow and habitat connectivity in marbled salamander ( <i>Ambystoma opacum</i> ) populations fragmented by agricultural and residential development
	Jennifer H. Olker*, Tom Hollenhorst, Lucinda B. Johnson, Patrick K. Schoff, Catherine Johnson, and Glenn Guntenspergen	Broadscale land use impacts on northern leopard frog ( <i>Rana pipiens</i> ) in the upper Midwest
	Cynthia A. Paszkowski* and Sara E. Terry	Distribution and abundance of amphibians across land-use types in Alberta's aspen parkland
	R. Heath Rauschenberger*, and Jerry L. Farris	Preliminary survey of herptofaunal communities in agricultural ditches in northeastern Arkansas
	Kevin R. Russell*, Breanna L. Riedel, W. Mark Ford, and Katherine P. O'Neill	Habitat relationships of red- backed salamanders ( <i>Plethodon</i> <i>cinereus</i> ) in an Appalachian grazing system
	A. Chandler Schmutzer*, Matthew J. Gray, and Elizabeth C. Burton	Influences of cattle on larval amphibians and the aquatic environment in Cumberland Plateau wetlands

<sup>\* =</sup> Presenter

Loren M. Smith\*, Scott T. McMurry, Diversity and physiological Todd A. Anderson, Kari D. Dupler, Dana M. Ghioca, Mary B. Gutierrez, Jo-Szu Tsai, and Louise S. Venne

fitness of amphibians in playa wetlands: effects of cultivation, climate, and conservation practices

Bethany K. Williams\*, Raymond D. Landscape-level and local Semlitsch

predictors of amphibian diversity and abundance at agriculturally impacted streams

#### **Contaminants**

Bob Brodman\*, Kristin Laurie, Dan Newman, Ryan McCoy, Cheryl Zakowski, and Kyle Bender

Ecological effects of an herbicide on tiger salamanders and their prey

Shane R de Solla\*

Hypoxia tolerance of Ontario turtles and its relevance to conservation

Shane R. de Solla\* and Pamela A. Martin

Toxicity of nitrogenous fertilizers to eggs of snapping turtles (Chelydra serpentina) in field and laboratory settings

Julia E. Earl\* and Howard H. Whiteman

Lethal and sublethal effects of nutrient pollution on amphibians

Jennifer L. Loda\* and David L. Otis Relationships between

amphibians, water quality, and landscape context of wetlands in Iowa

Tana V. McDaniel\*, Pamela A. Martin, Chris Marvin, John Struger, Mark McMaster and Jim Sherry

Is exposure to agricultural run-off from row crop agriculture leading to sexual disruption in northern leopard frogs (Rana pipiens)? A case study from south western Ontario

Spencer R. Mortensen\*, Katherine H. Carr, Steven L. Levine, Donna R. from exposure to glyphosate Farmer, and Joy L. Honegger

Analysis of amphibian effects formulations and implications for ecological risk assessment

R. Heath Rauschenberger\*, Timothy Effects of agrochemicals on the S. Gross, Jon J. Wiebe, Jerry L. Farris, Stanley E. Trauth

development of American alligators from central Florida and alligator snapping turtles from Arkansas

Patrick K. Schoff\*, Angela K. Rohweder, Jennifer H. Olker, Tom Hollenhorst, Lucinda B. Johnson, and Glenn Guntenspergen

A survey of atrazine in prairie pothole wetlands and preliminary gonadal examination of Rana pipiens

Donald W. Sparling\*

Extreme toxicity of endosulfan and chlorpyrifos to California amphibians

Donald W. Sparling\* and Manuel E. Alteration of larval development

Ortiz-Santaliestra

and metamorphosis in Rana sphenocephala by nitrate and perchlorate, two commonly occurring chemicals in fertilizers

Sara I. Storrs\* and Raymond D. Semlitsch

Life-history characteristics influence susceptibility of the reproductive system to endocrinedisrupting chemicals

James R. Vonesh\* and Julia C. Buck Pesticide alters oviposition site

selection in gray treefrogs

Abnormalities and **Pathogens** 

Debra L Miller\*, Matthew J Gray, A Frog virus 3 prevalence in Chandler Schmutzer, and Charles A tadpoles inhabiting cattle-access Baldwin

and non-access wetlands in Tennessee

Jason R. Rohr\*, Anna M. Schotthoefer, Rebecca A. Cole, Catherine M. Johnson, Lucinda B. Johnson, and Val R. Beasley

The role of landscape and local variables in the prevalence and abundance of amphibian helminth infections

Conservation and Management

Jennifer S. Anderson-Cruz\*

Natural Resources Conservation

Service addressing Iowa herpetofaunal species of

conservation concern through the utilization of USDA Farm Bill

**Programs** 

David M. Mushet\*, Ned H. Euliss, Jr., and Craig A. Stockwell

The U.S. Geological Survey and

the U.S. Department of

Agriculture: Working together to

quantify the effects of conservation programs on amphibian habitat suitability

Ivana M. Noell\*

Technical workshops on the biology and management of listed species in Alameda County, California, address agricultural effects on amphibians

Charles A. Rewa\*

Documenting fish and wildlife benefits of the Farm Bill: The wildlife component of the Conservation Effects Assessment

Project

Susan Walls\*, Stephen Faulkner, Wylie Barrow, and Bob Keeland

Evaluating wetland restoration practices in the Lower Mississippi Valley: Impacts on amphibian

species richness

### Wednesday, February 7, 2006

7:45 a.m.	Continental Breakfast		
8:00 - 8:15 a.m.	Opening remarks		
8:15 - 8:40 a.m.	Authors Val R. Beasley*, Anna M. Schotthoefer, Rebecca A. Cole, Amy L. Reeder, Marilyn O. Ruiz, Allan P. Pessier, Catherine M. Johnson, Patrick K. Schoff, Stephen G. Diana, Joseph E. Murphy, Camilla L. Lieske, Jeffrey M. Levengood, Karen R. Lips, Lauren E. Brown, Marvin D. Piwoni, Donald K. Nichols, and Lucinda B. Johnson	Title The health and sustainability of Midwestern and global amphibian communities: Research findings and opportunities for improved management	
8:40 - 9:25 a.m.	Discussion		
Session 4 Contaminants			
9:25 - 9:45 a.m.	William Battaglin*	Pesticide and fertilizer use worldwide with examples from the United States: Is potential exposure widespread?	
9:45 - 10:05 a.m.	David F. Bradford*, Edward M. Heithmar, Kerri Stanley, Laura L. McConnell, Donald W. Sparling, Staci L. Simonich, Nita G. Tallent-Halsell, Georges-Marie Momplaisir, Charlita G. Rosal, Lee A. Riddick, and Katrina E. Varner	environment of a declining California amphibian, the mountain yellow- sir, legged frog	
10:05 - 10:25 a.m.	Break		
10:25 - 10:45 a.m.	Keith R. Solomon*, Jim A. Carr, Louis H. du Preez, John P. Giesy, Ron J. Kendall, Ernest E. Smith, and Glen J. Van Der Kraak	Atrazine and amphibians: Risks in the agricultural landscape	
10:45 - 11:05 a.m.	Rick A. Relyea*	Community ecotoxicology: When the dose does not make the poison	

<sup>\* =</sup> Presenter

11:05 - 11:25 a.m.	Michelle D. Boone*	Impacts of chemical contaminants on amphibian populations: Evaluating effects of chemical mixtures on amphibian metamorphosis	
11:25 - 11:45 a.m.	Jason R. Rohr*, Lawrence Chien, Jake L. Kerby, Tyler Sager, Timothy M. Sesterhenn, Andy Sih, and Brent D. Palmer	Our present approach for deriving safe chemical concentrations and its consequences for the safety of our declining amphibians	
11:45 a.m 1:00 p.m.	Lunch	On Your Own	
1:00 - 1:20 p.m.	Shane R. de Solla*, Pamela A. Martin, Tana V McDaniel, Ryan Loveridge, Karen E Pettit, Christine A Bishop, John E. Elliott, and John Struger	, Direct and indirect impacts of nutrien enrichment on amphibians and reptiles	
1:20 - 2:30 p.m.	Discussion		
Session 5 Abnormalities and Pathogens 2:30 - 2:50 p.m.	Pieter T. J. Johnson*, Katherine L. Dosch, Richard, B. Hartson, Jonathan M. Chase, Don Larson, Daniel R. Sutherland and Stephen R. Carpenter	Effects of aquatic eutrophication on parasite-induced malformations in amphibians	
2:50 - 3:10 p.m.	Break		
3:10 - 3:30 p.m.	Klaus Henle*	From pattern to cause in amphibian anomalies: Possibilities and limitations	
3:30 - 3:50 p.m.	Cindy Carey*	Pathogens and susceptibility to disease in amphibians	
3:50 - 4:10 p.m.	Louise A. Rollins-Smith*, Douglas C. Woodhams, and Carlos Davidson	Agricultural practices, antimicrobial skin defenses, and global amphibian declines	

4:10 - 5:00 p.m. Discussion

Banquet, featured speaker, and St. Louis Zoo tour

5:45 p.m. Board buses at the Crowne Plaza Hotel

Clayton for transport to the River Camp

at the St. Louis Zoo

6:15 - 7:15 p.m. Cash bar at the zoo

6:45 - 7:30 p.m. Banquet

7:30 - 8:20 p.m. Featured speaker: Stephen Polasky Incorporating biodiversity

conservation and ecosystem services into decision-making

8:30 - 10:00 p.m. Guided tour of the Charles H. Hoessle

Herpetarium, St. Louis Zoo

8:30 p.m. Bus departs the zoo for the Crowne

Plaza Hotel for those not touring the

herpetarium

10:00 p.m. Final bus departs the zoo for the

Crowne Plaza Hotel

### Thursday, February 8, 2006

7:45 a.m.	Continental Breakfast	
8:00 - 8:15 a.m.	Opening remarks	
8:15 - 8:40 a.m.	Authors Tyrone B. Hayes*	Title Pesticides, endocrine disruption, environmental stress, disease and amphibian declines: Making the connections
Session 6 Conservation and		
Management 8:40 - 9:05 a.m.	C. Kenneth Dodd, Jr.*	Agriculture and herpetofauna: Conservation options in an era of decline
9:05 - 9:25 a.m.	Jonathan M. Chase* and Amber Burgett	Amphibians in fragmented landscapes: Effects of pond density on salamander abundance and their role as top predators in food webs, with potential implications for conservation
9:25 - 9:45 a.m.	J. Sean Doody, William S. Osborne, Bronwyn Rennie, and Christina M. Castellano*	Reconciling farming with wildlife: Monitoring vertebrate biodiversity in the rice agroecosystem of the Riverina Bioregion, New South Wales, Australia
9:45 - 10:05 a.m.	Hwa-Ching Lin* and Li-Yi Cheng	Conservation of the endangered Taipei frog, <i>Rana taipehensis</i>
10:05 - 10:25 a.m.	Break	
10:25 - 10:45 a.m.	Jason Tesauro*	The role of livestock grazing in the conservation and management of the bog turtle, <i>Glyptemys muhlenbergii</i>

<sup>\* =</sup> Presenter